

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001868

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: B25J 3/04, A61B 17/00, B25J 9/00

According to International Patent Classification (IPC) or to both national classification and IPCab

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: B25J 3/04, A61B 17/00, B25J 9/00; USPC: 301/34, 128/904, 128/DIG7, 414/909, 700/245

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

Delphion, Canadian Patents Database, USPTO website. Search terms: haptic, strain gauge, load cell, phantom.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6377011 B1 (BEN-UR) 23 April 2002 (23-04-2002) whole document	1-13, 36, 37
Y	col. 8 lines 50-56 re: claims 36 and 37 figure 18 col. 7 lines 65-66, col. 8 lines 14 and 33-44, col. 26 lines 16-23	18, 35, 38-40
X	US 5807377 (MADHANI et al.) 15 September 1998 (15-09-1998) whole document	14-17, 19-23, 32-34, 37
Y	col. 8 lines 54-62 re: claims 15 and 37 figure 4B re: claims 14, 20 and 34	18, 24, 26-31, 35, 38-40
Y	US 6063095 (WANG et al.) 16 May 2000 (16-05-2000)	24, 26-31
Y	US 5882206 (GILLIO, ROBERT G.) 16 March 1999 (16-03-1999)	24, 26-31
X	WO 02/080783 (DYCUS et al.) 17 October 2002 (17-10-2002)	25
A	US 5623582 (ROSENBERG) 22 April 1997 (22-04-1997)	
A	US 6233504 (DAS et al.) 15 May 2001 (15-05-2001)	

Patent family members are listed in annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international-type search
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
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